Claims

[c1]   1. A color correcting circuit coupled to a video source and a display panel, comprising:

a video look-up circuit, coupled to the video source, wherein an N bit video data from the video source is modulated into a N+M bit video data according to a color look-up table;

a N+M bit data driving circuit, coupled to the video look-up circuit for receiving and outputting the N+M bit video data; and

a N+M bit data gamma voltage generating circuit, coupled to the N+M bit data driving circuit for receiving the N+M bit video data and providing the voltages in every step according to the values found in a gamma color correction table,

wherein, M is a natural number.

[c2]   2. The color correction circuit of claim 1, wherein the N+M bit data gamma voltage generating circuit comprises a gamma correction circuit.

[c3]   3. The color correction circuit of claim 1, wherein the N+M bit video data comprises N+M bit video data for the color red.

[c4] 4. The color correction circuit of claim 1, wherein the N+M bit video data comprises N+M bit video data for the color green.

[c5] 5. The color correction circuit of claim 1, wherein the N+M bit video data comprises N+M bit video data for the color blue.

[c6] 6. The color correction circuit of claim 1, wherein the display panel displays the corrected N+M bit video data.

[c7] 7. A method of correcting the colors of a display, comprising the steps of:
providing an N bit video data;
modulating the N bit video data into aN+M bit video data according to a color look-up table; and providing the voltages of every step for the N+M bit video data according to the values found from a gamma color correction table,
wherein, M is a natural number.

[c8] 8. The method of claim 7, wherein the N+M bit video data comprises N+M bit video data for the color red.

[c9] 9. The method of claim 7, wherein the N+M bit video data comprises N+M bit video data for the color green.

[c10] 10. The method of claim 7, wherein the N+M bit video

data comprises N+M bit video data for the color blue.